WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hyd	roelectric Project	orough/City:	Matanuska-Susitna Borough Sampling Date: 25-Jun-12					
Applicant/Owner: Alaska Energy A	Authority		Sampling Point: S	W12_T28_01				
nvestigator(s): JGK	,	L	andform (hillside, terrace, hummocks etc.): Bluff					
ocal relief (concave, convex, none)	hummocky		Slope: 3.5	% / 2.0	° Elevation: 740			
Subregion: Interior Alaska Mounta	ins	Lat: 6	 32.865589908	 84	 Long.: -148.373289972	Datum: WGS84		
oil Map Unit Name:			,2.00000000	<u>, , </u>	NWI classification: Uplane			
are climatic/hydrologic conditions or	the site tunical for this tir	no of woor?	. Vac	No ○	(If no, explain in Remarks.)	<u>u</u>		
Are Vegetation , Soil Are Vegetation , Soil ,	, or Hydrology ☐ s , or Hydrology ☐ r Attach site map shov	ignificantly aturally pro ving sam	disturbed?	Are "N (If nee	ormal Circumstances" present? Yes ded, explain any answers in Remarks.) s, transects, important features,)		
Hydrophytic Vegetation Pres		the Sam	nlad Araa					
Hydric Soil Present?	Yes O No 💿		Is the Sampled Area within a Wetland? Yes ○ No ●					
Wetland Hydrology Present?	Yes 🔾 No 💿		within a Wetland? Yes ○ No ●					
Remarks: /EGETATION - Use scientific	names of plants Li	st all snee	ries in the	nlot				
20217411014 OSC SCICITUM	names of plants. Lis	piot.	Dominance Test worksheet:					
Tree Stratum		Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species			
1.		0			That are OBL, FACW, or FAC:	(A)		
2.		0			Total Number of Dominant Species Across All Strata:	2 (B)		
3.		0			Percent of dominant Species	(b)		
4.		0				100.0% (A/B)		
5.		0			Prevalence Index worksheet:			
	Total Cover:				Total % Cover of: Multiply	by:		
Sapling/Shrub Stratum	50% of Total Cover:	0 20%	of Total Cover	0	OBL Species 0 x 1 =	0		
1. Picea mariana		1		FACW	FACW Species 11 x 2 =			
Betula nana		20	✓	FAC	FAC Species 47 x 3 =	141		
Empetrum nigrum		15	✓	FAC	FACU Species 10 x 4 =	40		
Vaccinium uliginosum		10		FAC	UPL Species 0 x 5 =	0		
5. Vaccinium vitis-idaea				FAC	Column Totals: 68 (A)	203 (B)		
6. Loiseleuria procumbens		5		FACU				
7. Ledum decumbens		10		FACW	Prevalence Index = B/A =	2.985		
8. Arctostaphylos alpina		5		FACU	Hydrophytic Vegetation Indicators:			
9		0			✓ Dominance Test is > 50%			
10		0			✓ Prevalence Index is ≤3.0			
Herb Stratum	Total Cover: 50% of Total Cover:		of Total Cover	: 13.6	Morphological Adaptations ¹ (Provide Remarks or on a separate sheet)			
1		0			Problematic Hydrophytic Vegetation			
2					¹ Indicators of hydric soil and wetland hydr be present, unless disturbed or problemat	ology must		
3					be present, unless disturbed or problemat	.IC.		
4					Plot size (radius, or length x width)	_10m		
5					% Cover of Wetland Bryophytes	0		
6.		0			(Where applicable)			
7					% Bare Ground	_5		
8.					Total Cover of Bryophytes	2		
9			\Box					
10	Total Cover:		J		Hydrophytic Vegetation			
	50% of Total Cover:	0	Present? Yes • No					
Remarks: tr pedlab salix sp. lyco					<u> </u>			
lichen cover 35%	ıu							

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SOIL Sampling Point: SW12_T28_01

Profile Descript	ion: (Describe to t		eeded to docu	iment the in				cators)				
Depth Matrix (inches) Color (moist)			Color (moist)		ox Features	Loc ²	Texture	Remarks				
0-2		30)	100	0001 (11	ioistj	_/0_	Турс	LUC	Hemic Organics	10 % roots		
2-3	7.5YR	2.5/3	100						Sandy Loam	fine to coarse sand		
				2.57						-		
3-10	10YR	3/6	97	2.5Y	4/4	3	C	M	Fine Loamy Sand	top of layer, sub-ang grvl. fine to coarse san		
Type: C=Cor	ncentration. D=	Depletion	. RM=Redu	ced Matrix	² Location	: PL=Por	e Lining. RC	C=Root Cha	annel. M=Matrix	. ———		
Hydric Soil I	ndicators:			Indicat	ors for Pro	blemati	c Hydric So	oils:				
	r Histel (A1)				ka Color Ch		4		Alaska Gleyed Without H	ue 5Y or Redder		
	pedon (A2)				ka Alpine sv		-		Underlying Layer			
	Sulfide (A4)			Alas	ka Redox W	ith 2.5Y H	, Hue		Other (Explain in Remarl	ks)		
_ ′ ′	k Surface (A12)											
Alaska Gle							tic vegetation role position r		mary indicator of wetland h	nydrology,		
Alaska Red	dox (A14)			anu an	арргорпас	: iaiiuscaļ	be position i	nust be pr	esent			
Alaska Gle	eyed Pores (A15	5)		⁴ Give o	letails of co	lor chang	e in Remark	(S				
Restrictive Laye	er (if present):											
Type:	or (ii prosorie):								Hydric Soil Present	? Yes O No •		
Depth (inch	nes):								,	165 5 116 5		
Remarks:												
HYDROLO	GY											
Wetland Hyd	rology Indica	tors:							Secondary Indi	cators (two or more are required)		
Primary Indica	ntors (any one is	s sufficien	t)						Water Stained Leaves (B9)			
Surface W	Vater (A1)			☐ In	undation Vis	sible on A	erial Image	ry (B7)	Drainage Patterns (B10)			
High Wate	High Water Table (A2) Sparsely Vegetated Concave Surface (B8)							ce (B8)	Oxidized R	thizospheres along Living Roots (C3)		
Saturation	Saturation (A3) Marl Deposits (B15)								Presence of	of Reduced Iron (C4)		
Water Ma	ırks (B1)			□ ну	drogen Sulf	ide Odor	(C1)		☐ Salt Depos	sits (C5)		
	Deposits (B2)			U Dr	y-Season W	ater Tabl	e (C2)			Stressed Plants (D1)		
Drift Depo	` ,			☐ Ot	her (Explair	in Rema	rks)			ic Position (D2)		
	or Crust (B4)									quitard (D3)		
Iron Depo	. ,									graphic Relief (D4)		
☐ Surface S	oil Cracks (B6)								☐ FAC-neutra	al Test (D5)		
Field Observa		,, (
Surface Water	r Present?		No •	De	epth (inches	5):						
Water Table F	Present?	Yes	No 💿	De	epth (inches	s):		Wetla	nd Hydrology Presen	nt? Yes O No 💿		
Saturation Pre (includes capi		Yes C	No •	De	epth (inches	s):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												

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